COEN 161   **Web Programming 1**   **Winter 2017**

Final Project: (Groups of 3-4 people)

Demo: A demo of your application to the class is required. **_Demos will be during the last week of classes_**.

Introduction

EduCamps Inc is an organization that offers educational summer camps for children aged 10-14, across the country (list will be provided). The camps are offered in Winter and Summer months and each camp is either for 1 or 2 weeks. Each camp location is identified by a name, for example, **_EduCamps_SantaClara._** The actual camp site may be different from where the camp office is located. Each camp offers activities, in three categories, namely, _computer-based activities, Robotics_ and _outdoor activities_. Children can enroll for 1 or 2 weeks. The organization also sells camp-related items like books, back-packs, T-shirts etc, on line from their website. Anyone can buy their items and students signed up for camps get a 15% discount on items.

You are required to design and develop a website for _EduCamps_.

The website must support the following services:

- Provide a description of **_EduCamps Inc_**'s philosophy, their services, their location(s), relevant pictures and links to related pages.

- Provide a list of schedule of camps and a description of activities in camps. The schedule should include the dates and locations of the camps and activities in each camp.

- Provide a form to allow parents to register their children in camps.

- Provide a form to buy the camp items from their website.

- Provide a "best memories / moments page" where children can upload pictures and share.

- Provide a forum for members (parents whose children have attended the camp) to post their comments/reviews and suggestions.

- Provide a visualization of enrollment statistics.

- Provide an activity page to show a sampling of games and other computer-based activities that children participate in.

1.0 Project Requirements

The website should consist of **at least <u>six</u>** pages.

a. <u>Start (home) page</u> (50 pts)

This page should include the site logo, title, a description of the site (the services that are available or the functionality available to the user), links to the other pages of the site and the web master's information. You should include a description of activities that students participate in each camp, age requirements, any special instructions for children and parents.

Include a map of where the different camp sites are located.

b. <u>Schedule and Registration page</u> (50 pts)

The camp schedule should show the start and end dates of the camps and the camp location. A registration form with fee information must be provided. The fee (a fixed fee calculated per week) per child per camp is shown in the schedule. A family with more than 1 child gets a discount of 10% for every child after the first child. The form should allow registrants to enter the following information:

- Applicant's (child's) full name
- Date of birth
- Parents name
- Parent's contact email and phone (unique and serve to identify the child's records)
- Grade level and school
- Any special instructions, allergies etc.
- Camp duration (1 week or 2 weeks)
- Fee (should be automatically calculated based on the duration signed up for.
- Payment information (payment by credit card)

A confirmation should be displayed on successful registration. Once a child is registered for a camp, his or her parent can login (with the child's name and email/phone) and view the details of his/her schedule.

c. A catalog page (50 pts)

This page should display a list of camp-related items that are sold and an order form. Anyone can buy their items and students signed up for camps get a 15% discount on items.

d. Forum page (30 pts)

This page should allow the parents to submit their reviews and suggestions via a form. You may choose to display the submitted reviews and suggestions either on the main page or on a separate page which should be reachable via a link from the main page.

e. Visualization page (50 pts)

This page should allow any visitor to the site to view the number of enrollments in various camps (for the past few years, for example) in a graph (a pie chart, a bar graph, line graph etc).

f. Activity page (50 pts)

This page should allow any visitor to experience a sampling of computer-based games and activities that children participate in the camps. You can provide games, or puzzles on this page for visitors to interact with. You should use your creativity to design the activities on this page.

Note: You are free to enhance your website with any additional details of your choice. Use your creativity to design the **f** part.

1.1 Deliverables (70 pts)

The website described above is the main deliverable.

Additional to the website, you are also required to deliver:

- A description of your team and its organization to successfully run the project, including: team roles, project schedule and anything relevant to illustrate your methodology. (1 to 2 pages max.)
- An architecture document describing the functional and technical structure of the website proposed, tools and technologies you will be using (5 pages max.)
- A Website introduction document with screen shoots of the main sections

1.2 Team requirements

Naming the website: Each team names the website as **KidCamps_***teamname*

You are required to design, implement and demonstrate **a** (**Start page**), **b** (**Registration page**), **c** (a **Catalog page**), **e** (a **Visualization page**) and **f** an **Activity page**, as described in section 1.1.

Note: Features implemented beyond requirements will be considered for extra credit.

1.3 Implementation Technologies:

You are required to implement the website and its functionality using **HTML 5, CSS, JavaScript (and JQuery),** server side components with **PHP and MySQL. You may also use AJAX and SVG as applicable.**

- You should publish your completed project on Engineering Design center web-servers.
- You should submit a zipped file with screen shots and source code in the **FinalProject_***teamname***_Dropbox** on Camino. Details of what to include will be posted separately.

1.4 Grading Details

Your application will be graded based on the design, content, usability, validity and implementation of the required functionality.